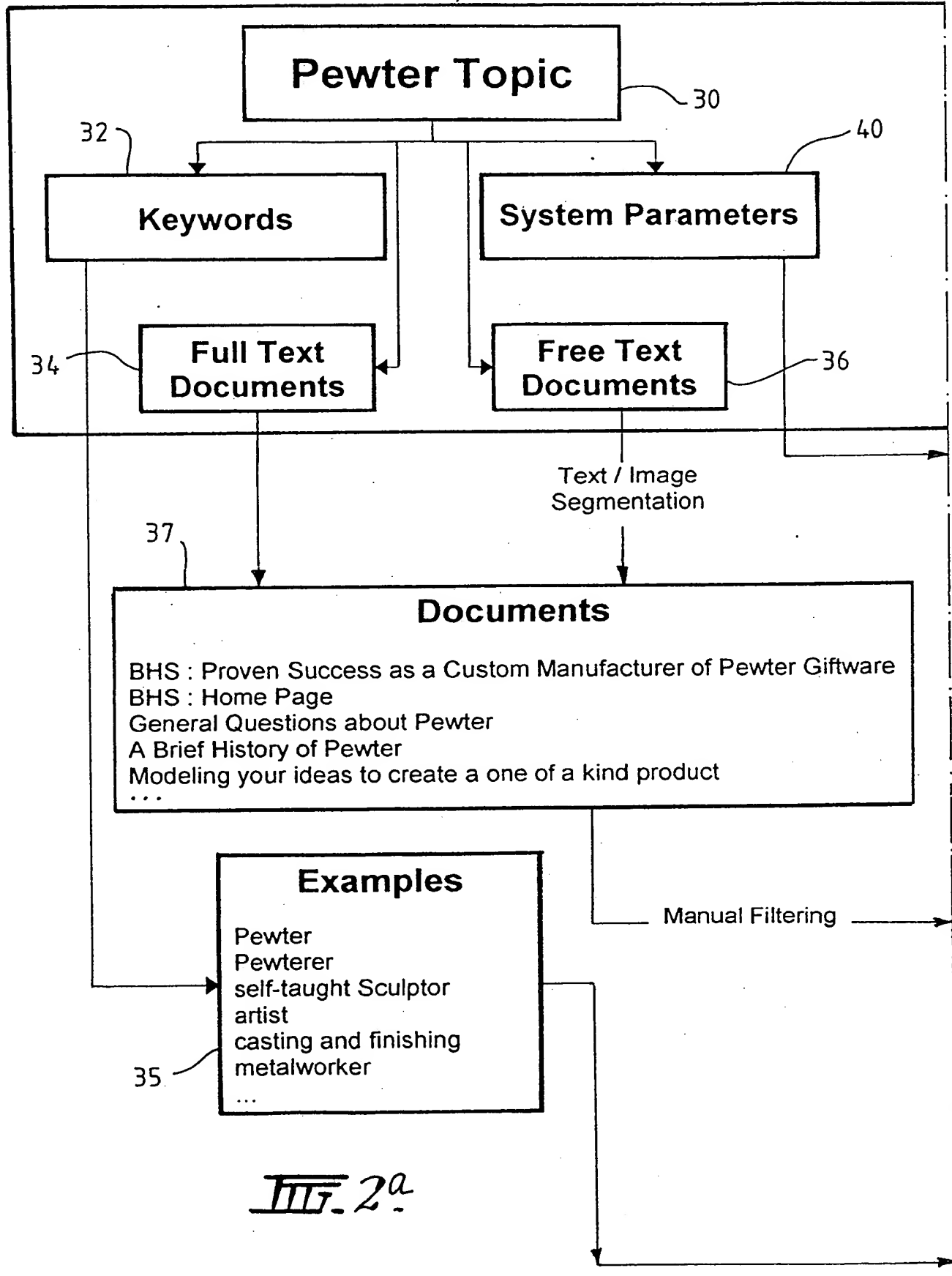
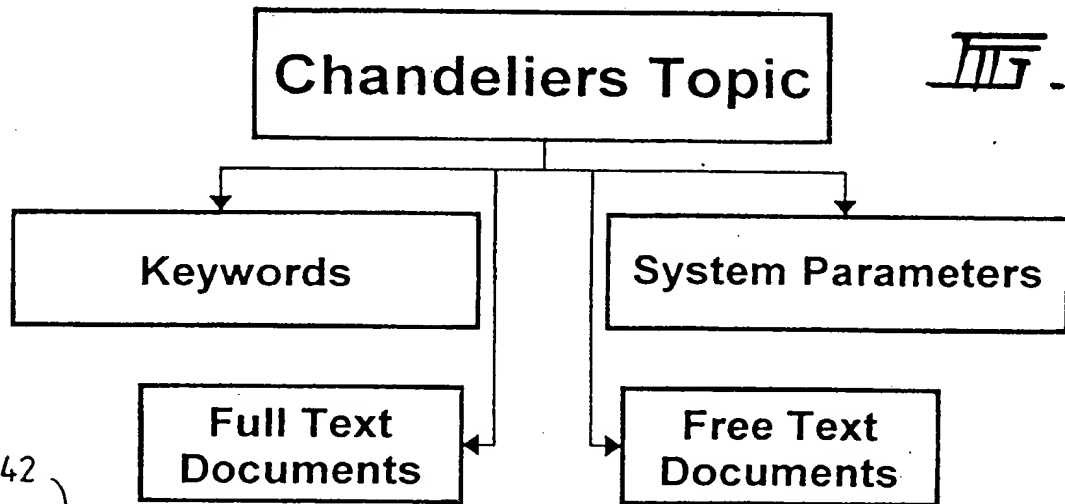


FIG. 1



An Example Of A Personalised Profile Of A User



Useful Texts Abstracted & Combined

BHS Industries manufactures **pewter** items.

From just an idea to **artwork**, we see a project through modelmaking, mouldmaking, production, and any finishing of the jobs as required. From final assembly, to boxing, and shipping, BHS is your **pewter** experts.

Artwork and create the model, or physical piece, to be reproduced in **pewter** in a cost-effective way. The use of rubber moulds enable us to produce items with relatively low tooling costs, making low volume orders affordable to our customers. From figurines to special edition **pewter plates**, from picture frames and clocks to custom desk set pieces.

Pewter was probably first made in the **Bronze Age** (between 2000 and 500BC)

Pewter and **bronze** are related alloys; **pewter** is mostly tin, with a small amount of **copper**(and other ingredients),while **bronze** is an alloy made up primarily of **copper**,with a small amount of tin. It seems likely that **pewter** was invented when the qualities of metal in the alloy were reversed –though whether this was by accident or design is impossible to tell !

Examples of Roman **pewter** – mostly spoons and other small utensils--- still exist in museums. Most items made of **pewter** in this era were utilitarian. Being a soft metal, **pewter spoons** etc. would eventually wear out and would then likely be melted down to make something new. So, very old examples of **pewter** are not nearly as common as are pieces made of harder metals like **bronze**.

By the middle ages the use of **pewter** was widespread. It was mainly used for functional items like plates and cutlery—but **pewterers** also made small decorations and toys, referred to as "trifle".

The growth of the **pewter industry** in Europe at this time led to the establishment of guilds, which regulated the quality of work produced by **pewteres**. " The Worshipful Company of **Pewterers**" was established in England in 1348 for this purpose.

Towards the end of the 18th. century....



Keywords

System Parameters

Full Text Documents

Free Text Documents

USER'S PROSPECTIVE OF A PROFILE



Categoriser Threshold Setting = 0.16
Clusterer Threshold Setting = 0.3
Summariser Threshold Setting = 0.2

A Combined Ranked List

Pewter	0.94	
pewterer	0.81	
artwork	0.808	
self-taugh Sculptor		0.805
artist	0.7	
bronze	0.67	
copper	0.65	
pewter plate		0.64
casting / finishing		0.6
tin	0.57	
metalworker		0.55
pewter spoons		0.4
pewter industry		0.33

...
Bronze Age 0.12

System Kernel Perspective Of A Trained Topic Of A Profile

-44

-46

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Documents Input (Free/Full Text)

BHS : Proven Success as a Custom Manufacturer of Pewter Giftware
 BHS : Home Page
 General Questions about Pewter
 A Brief History of Pewter
 Modeling your ideas to create a one of a kind product

37

Fig. 3a.

System Parameters Input

Categoriser Threshold Setting = 0.16
 Clusterer Threshold Setting = 0.3
 Summariser Threshold Setting = 0.2

40

Keywords Input

Pewter
 pewterer
 self-taught Sculptor
 artist
 casting and finishing
 metalworker
 ...

32

UCPS Tools

50

UCPS (Training Mode)

55

Pewter Topic

System Parameters

Categoriser Threshold Setting = 0.16
 Clusterer Threshold Setting = 0.3
 Summariser Threshold Setting = 0.2

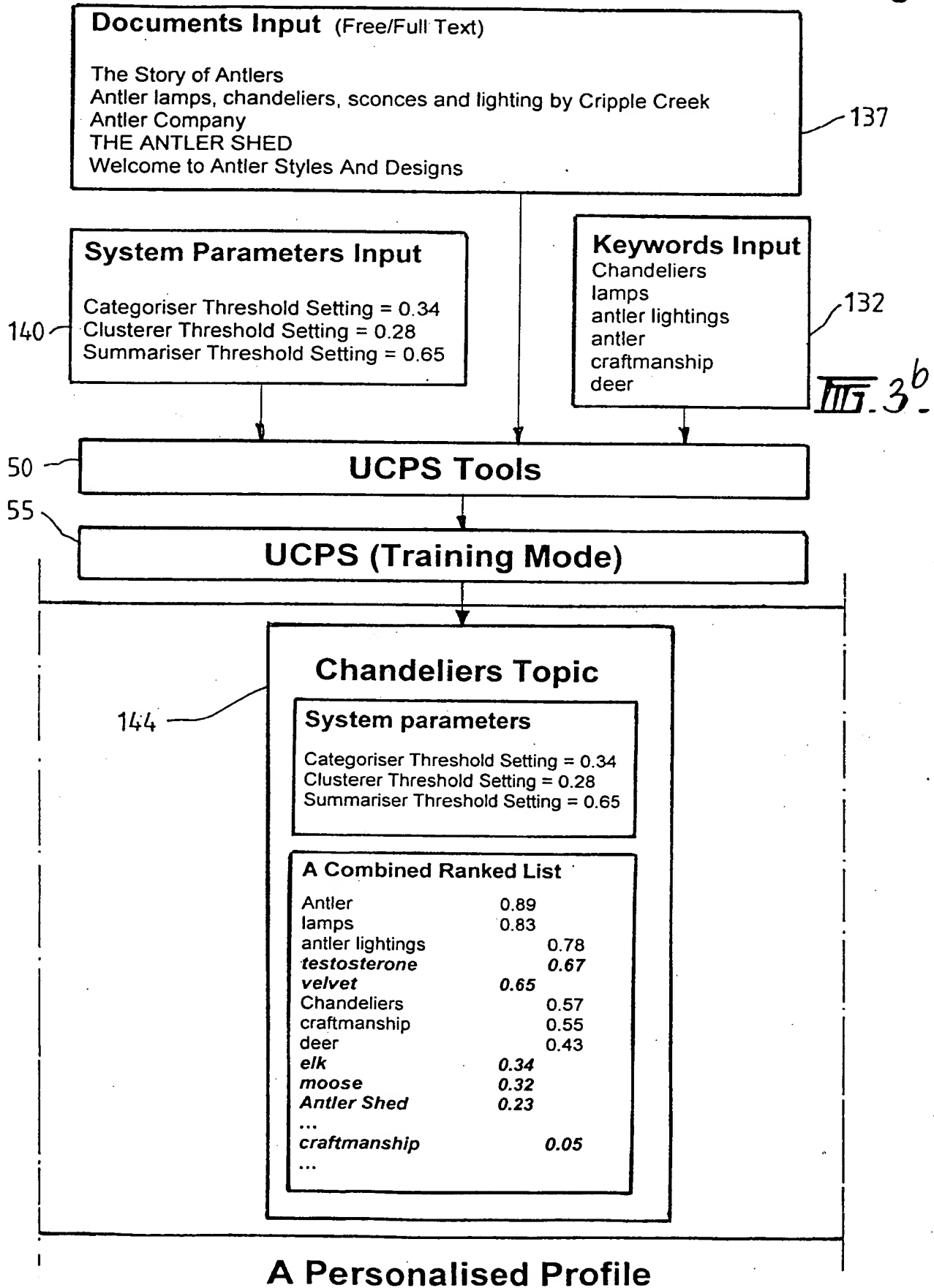
44

A Combined Ranked List

Pewter	0.94	
pewterer	0.81	
artwork	0.808	
self-taught Sculptor		0.805
artist	0.7	
bronze	0.67	
copper	0.65	
pewter plate	0.64	
casting / finishing	0.6	
tin	0.57	
metalworker	0.55	
pewter spoons	0.4	
pewter industry	0.33	
...		
Bronze Age	0.12	
...		

09931882 092001

An Example Of A Personalised Profile : Categoriser Training

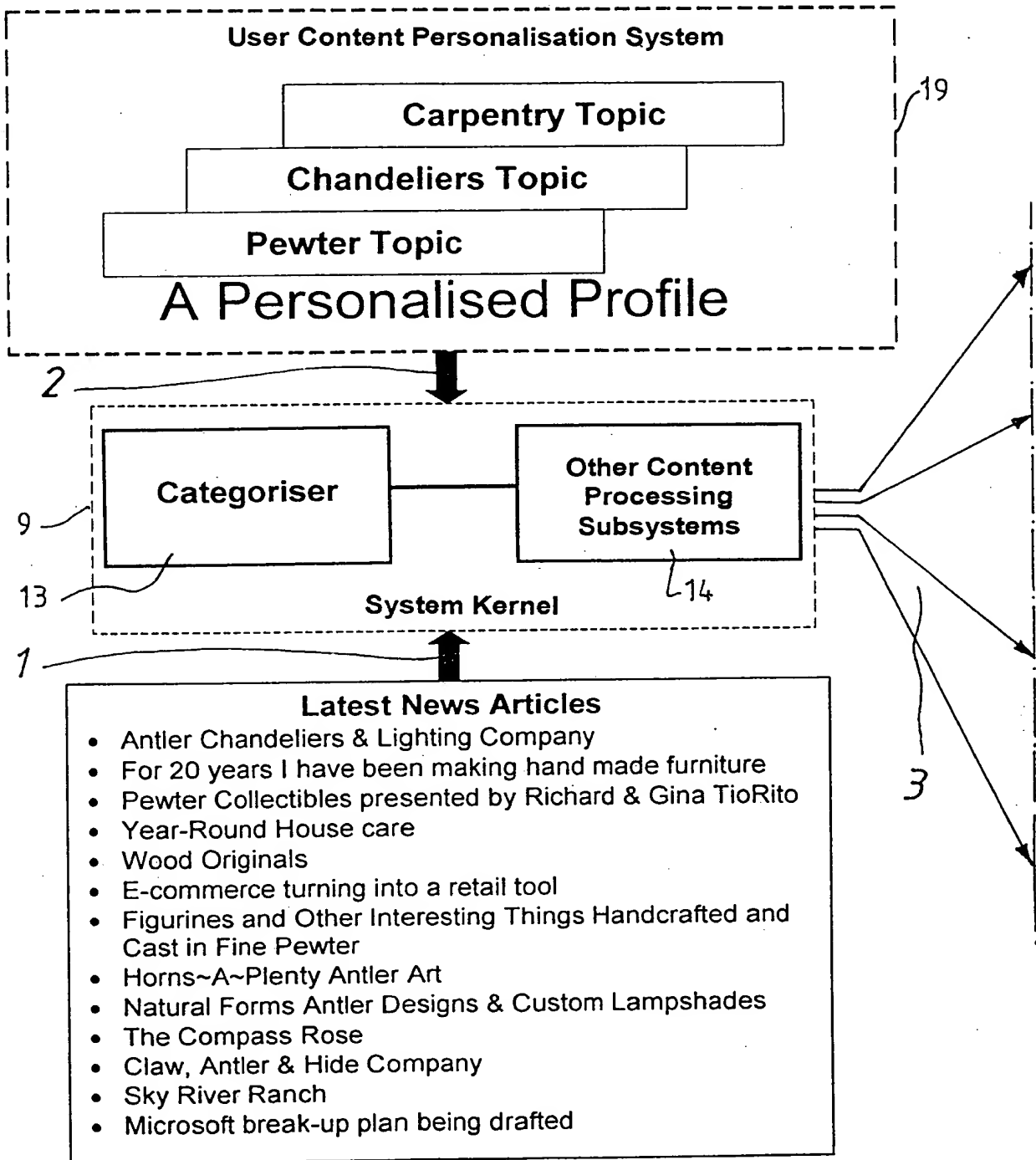


09931882-082001
100280-2887E60



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An Example of A Personalised Profile : Categoriser Document Sorting



III. 4a

6 **6** **6** **6** **6** **6** **6** **6** **6** **6**

Pewter Tray

- Pewter Collectibles presented by Richard & Gina TioRito
- The Compass Rose
- Figurines and Other Interesting Things Handcrafted and Cast in Fine Pewter

- 51

Chandeliers Tray

- Antler Chandeliers & Lighting Company
- Sky River Ranch
- Natural Forms Antler Designs & Custom Lampshades
- Claw, Antler & Hide Company
- Horns~A~Plenty Antler Art

- L52

Carpentry Tray

- Year-Round House Care
- For 20 years I have been making hand made furniture
- Wood Originals

- 453

Unwanted Tray

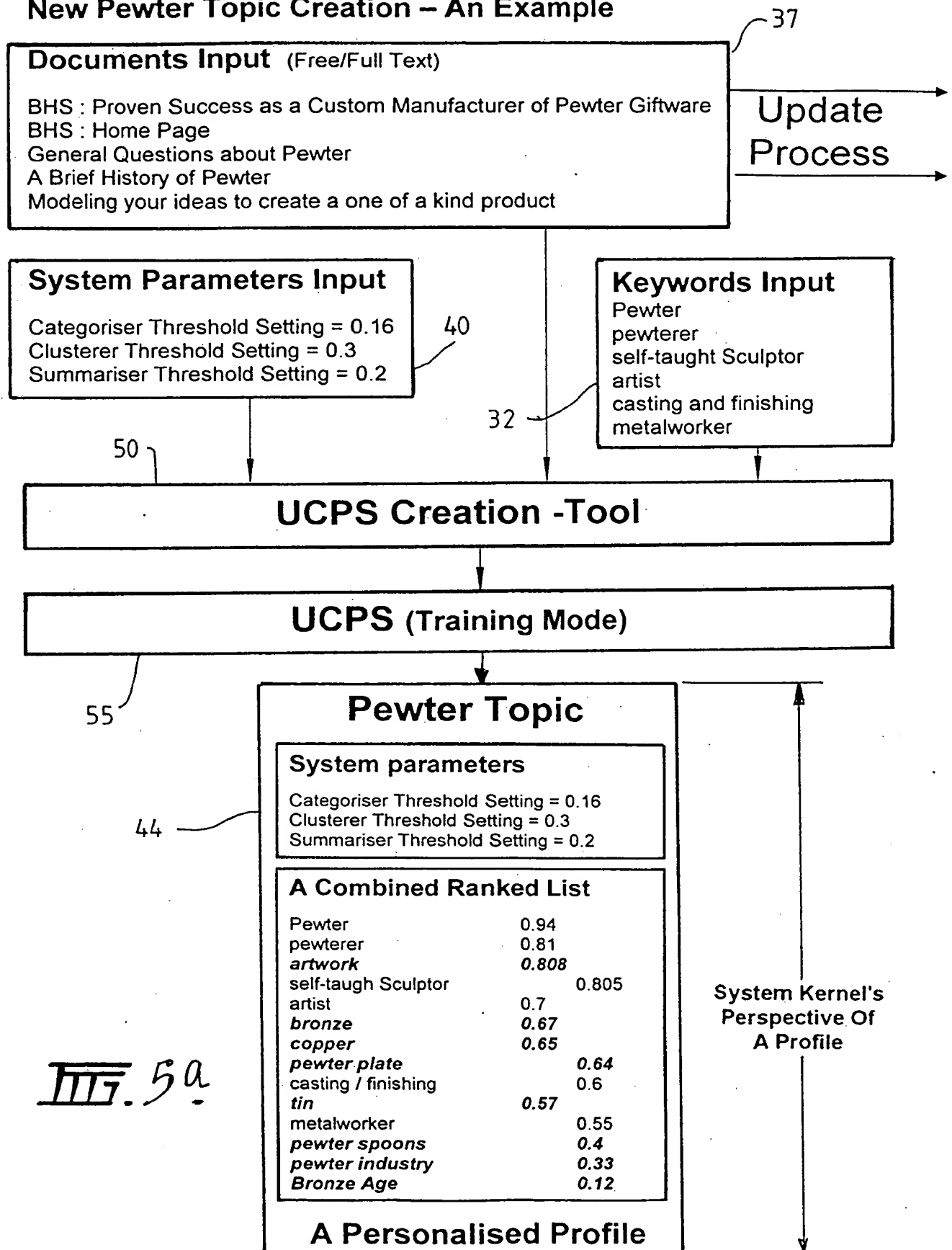
- Microsoft break-up plan being drafted
- E-commerce turning into a retail tool

- L 54

III 4b

10/46

New Pewter Topic Creation – An Example



Documents Input (Free/Full Text)

• • • •

- 32

Categoriser Threshold Setting = 0.32

50

• • •

UCPS (Training Mode)

New value is set
for Categoriser
Threshold

System parameters

Categoriser Threshold Setting = 0.32
Clusterer Threshold Setting = 0.3
Summariser Threshold Setting = 0.2

44

New list is created with different ranking & weights

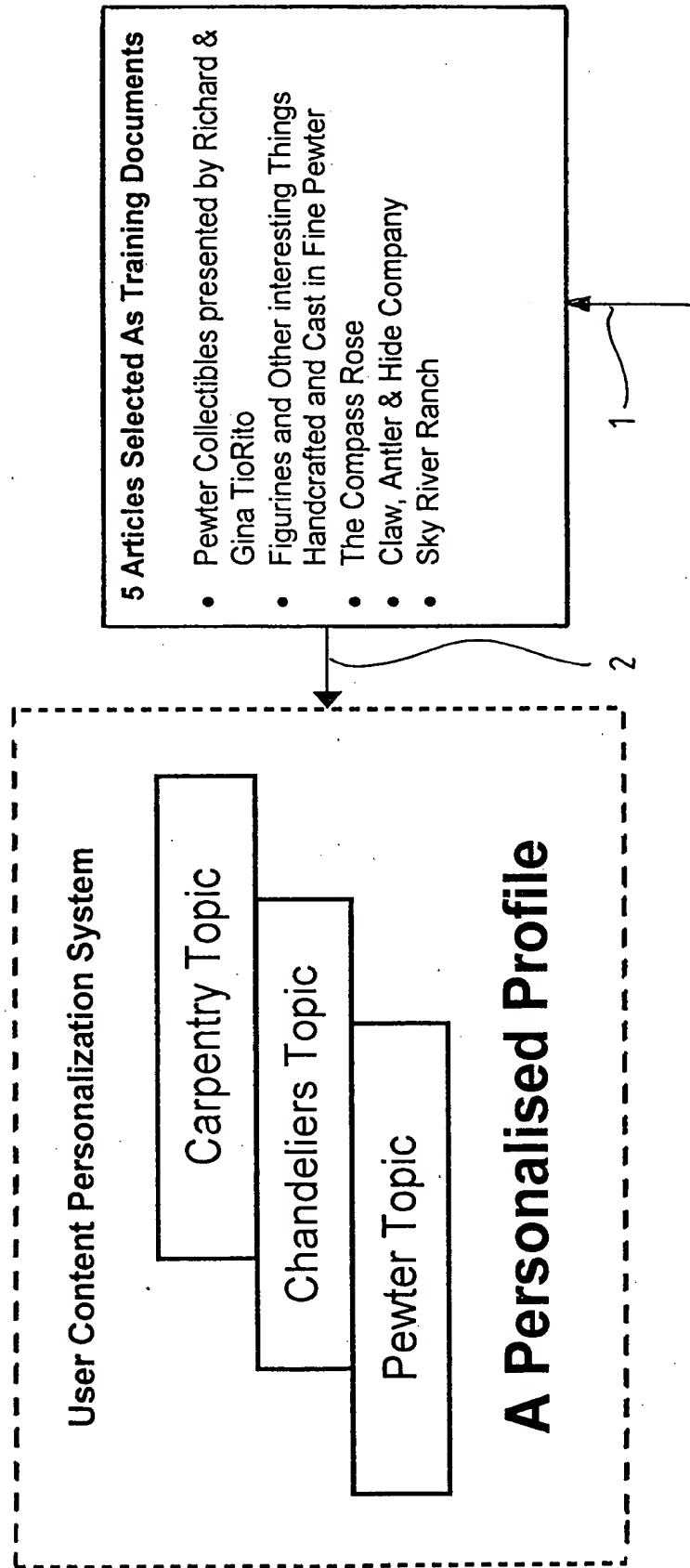
Pewter	0.92	
pewterer	0.84	
artist	0.81	
artwork	0.80	
pewter plate		0.7
bronze	0.67	
copper	0.66	
casting / finishing		0.58
tin	0.55	
metalworker		0.53
Plates		0.42
pewter spoons		0.41
pewter industry		0.35
...		
Bronze Age		0.21
Candlesticks		0.11

System Kernel's Perspective Of A Profile

A Personalised Profile

115. 5^b

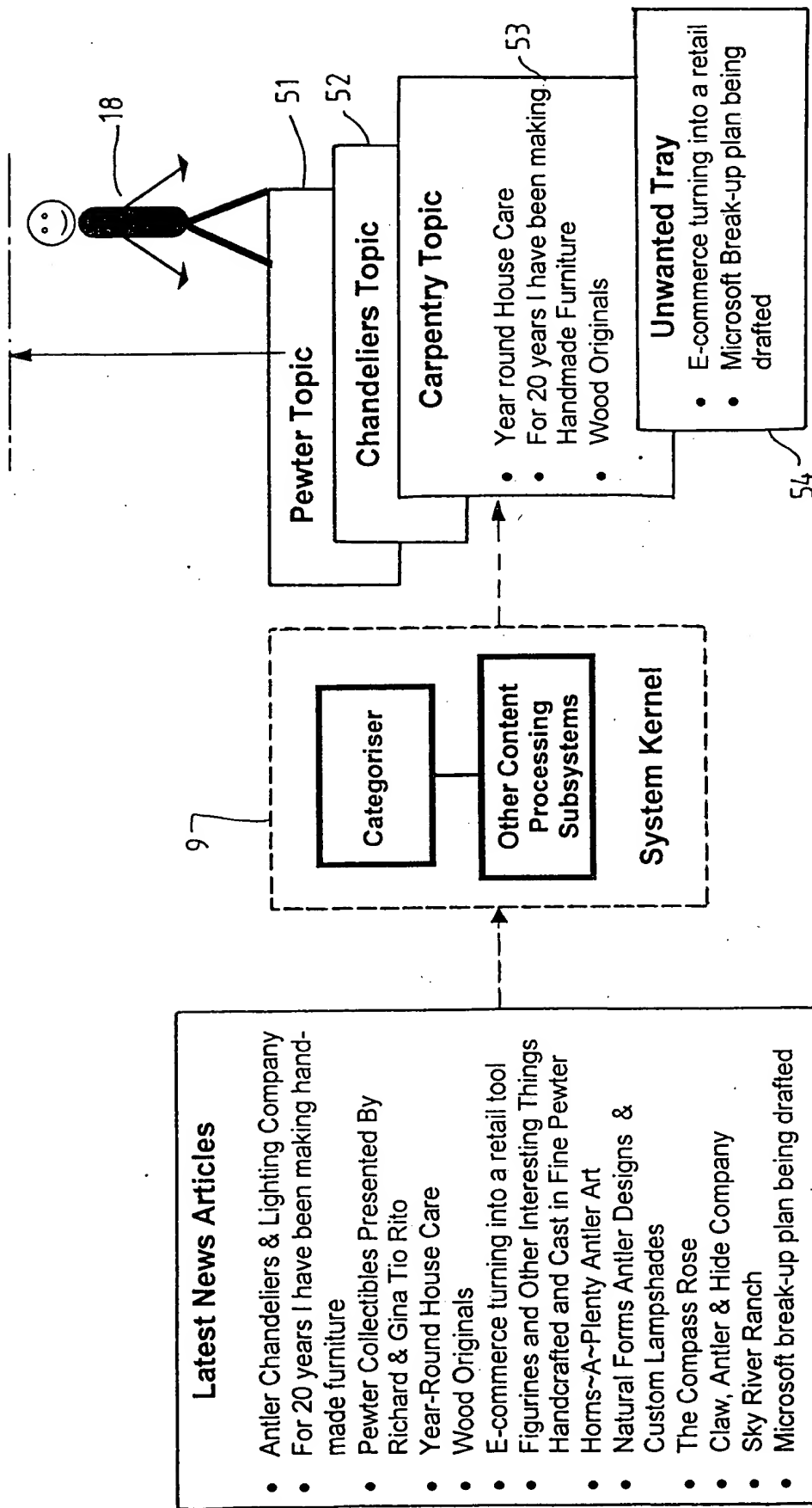
An Example Of A User Reading Articles & Update His Personal Profile



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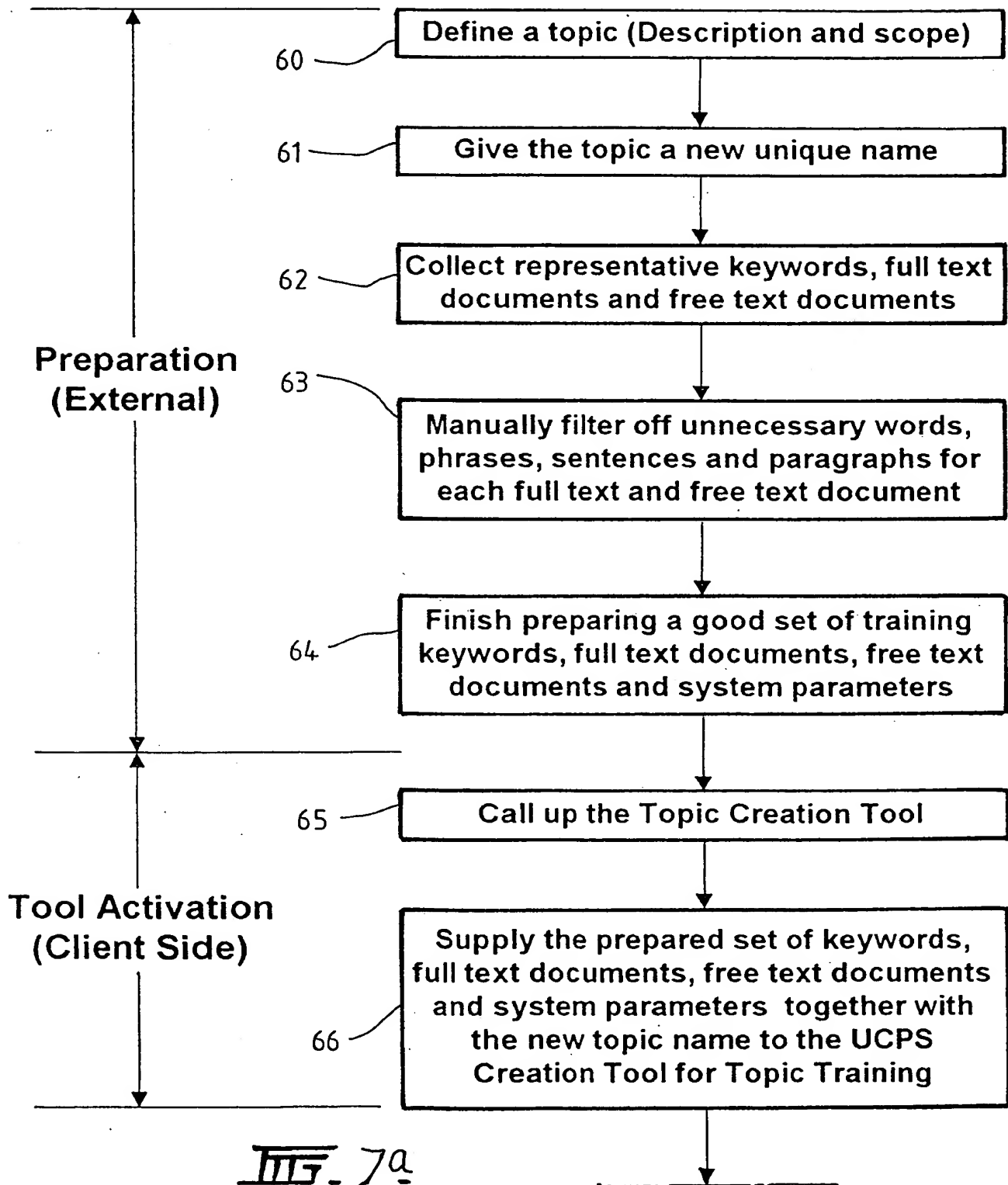
III. 6a

13/46



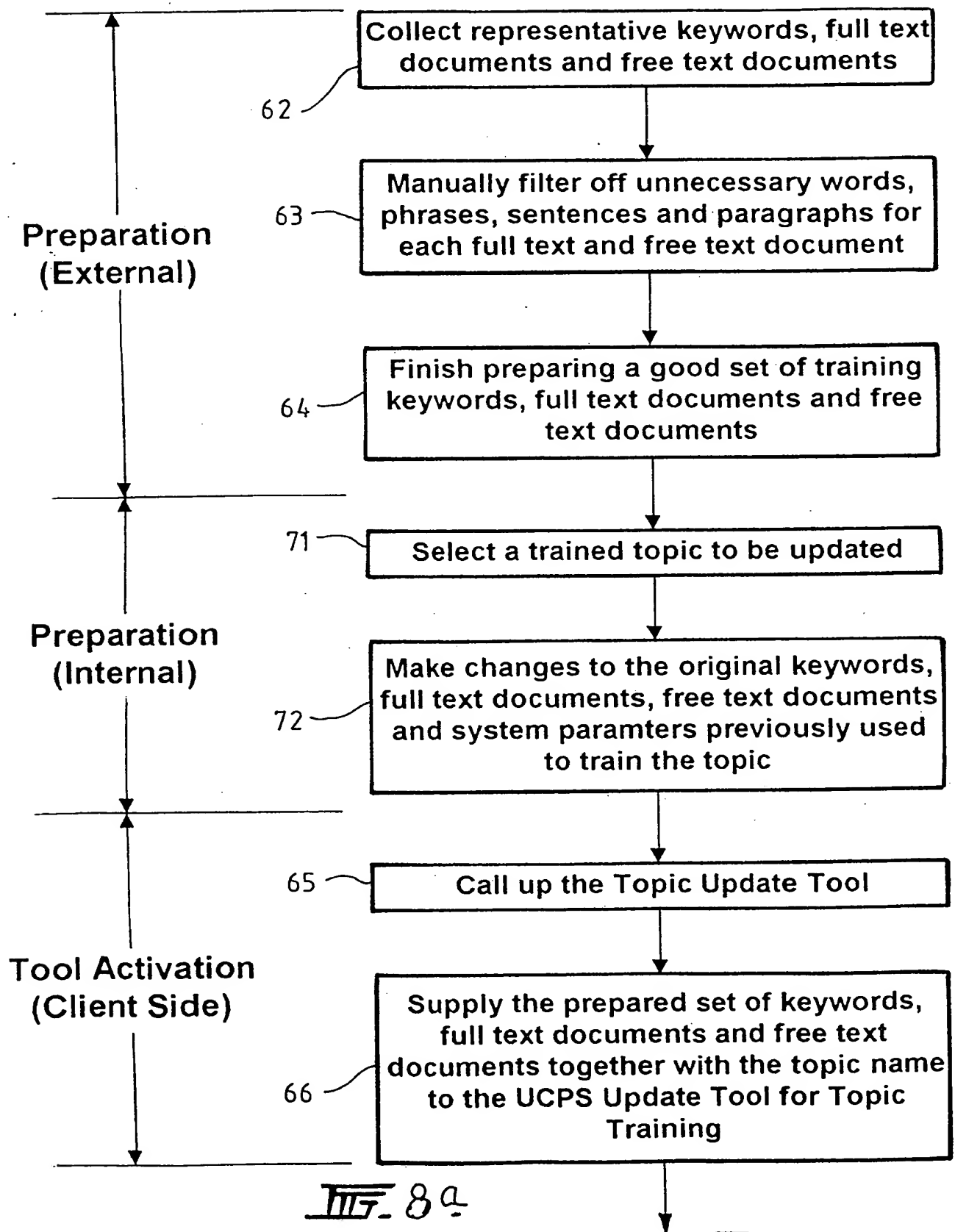
III. 6b.

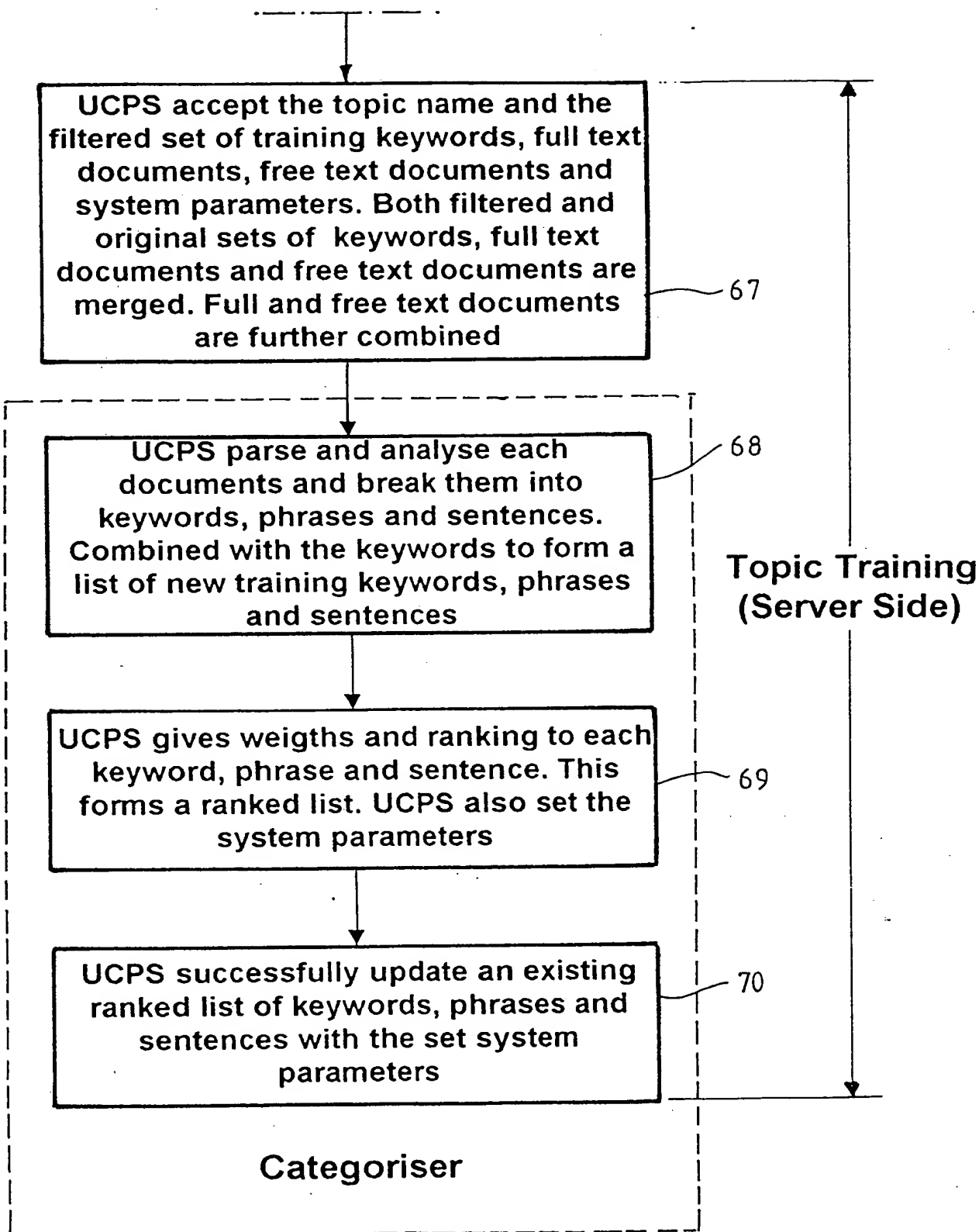
Topic Creation FlowChart





16/46
Topic Update FlowChart





```
graph TD
    subgraph Preparation [Preparation Internal]
        73[73 Select a trained topic within UCPS] --> 74[74 For each topic, select keywords, full text documents or free text documents for skewing]
        74 --> 75[75 Finish preparing a combined set of training keywords, full text documents and free text documents abstracted from one or more topics within UCPS]
    end
    subgraph Tool_Activation [Tool Activation Client Side]
        76[76 Select a trained topic to be skewed. Make changes to the original set of keywords, full text documents, free text documents and system parameters used to train this topic] --> 77[77 Call up the Topic Skew Tool]
        77 --> 78[78 Supply the prepared set of keywords, full text documents and free text documents together with the topic name to the UCPS Skew Tool for Topic Training]
    end
    75 --> 76
```

The flowchart illustrates the process of using the Topic Skew Tool, divided into two main phases: Preparation (Internal) and Tool Activation (Client Side).

Preparation (Internal):

- 73 Select a trained topic within UCPS
- 74 For each topic, select keywords, full text documents or free text documents for skewing
- 75 Finish preparing a combined set of training keywords, full text documents and free text documents abstracted from one or more topics within UCPS

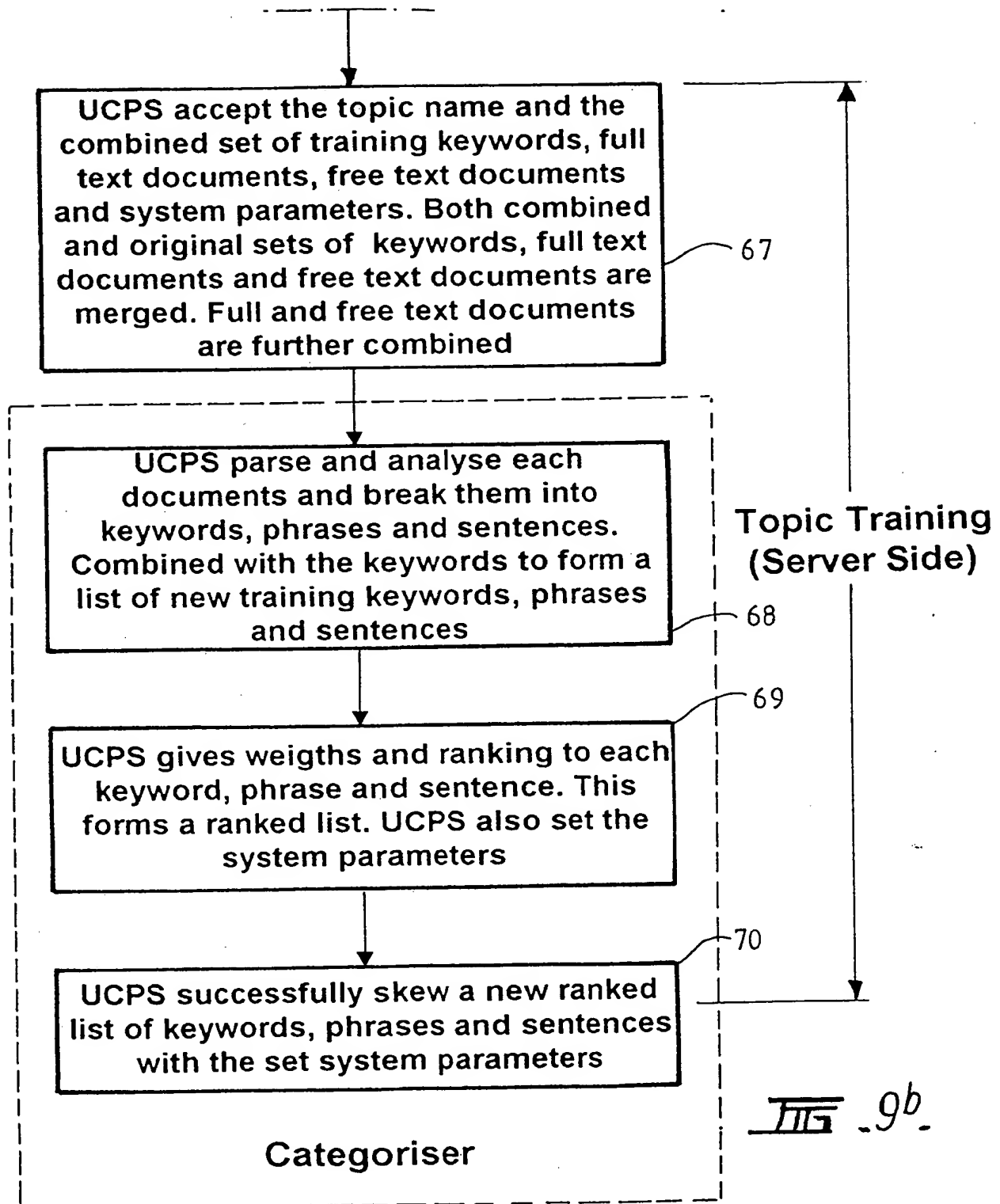
Tool Activation (Client Side):

- 76 Select a trained topic to be skewed. Make changes to the original set of keywords, full text documents, free text documents and system parameters used to train this topic
- 77 Call up the Topic Skew Tool
- 78 Supply the prepared set of keywords, full text documents and free text documents together with the topic name to the UCPS Skew Tool for Topic Training

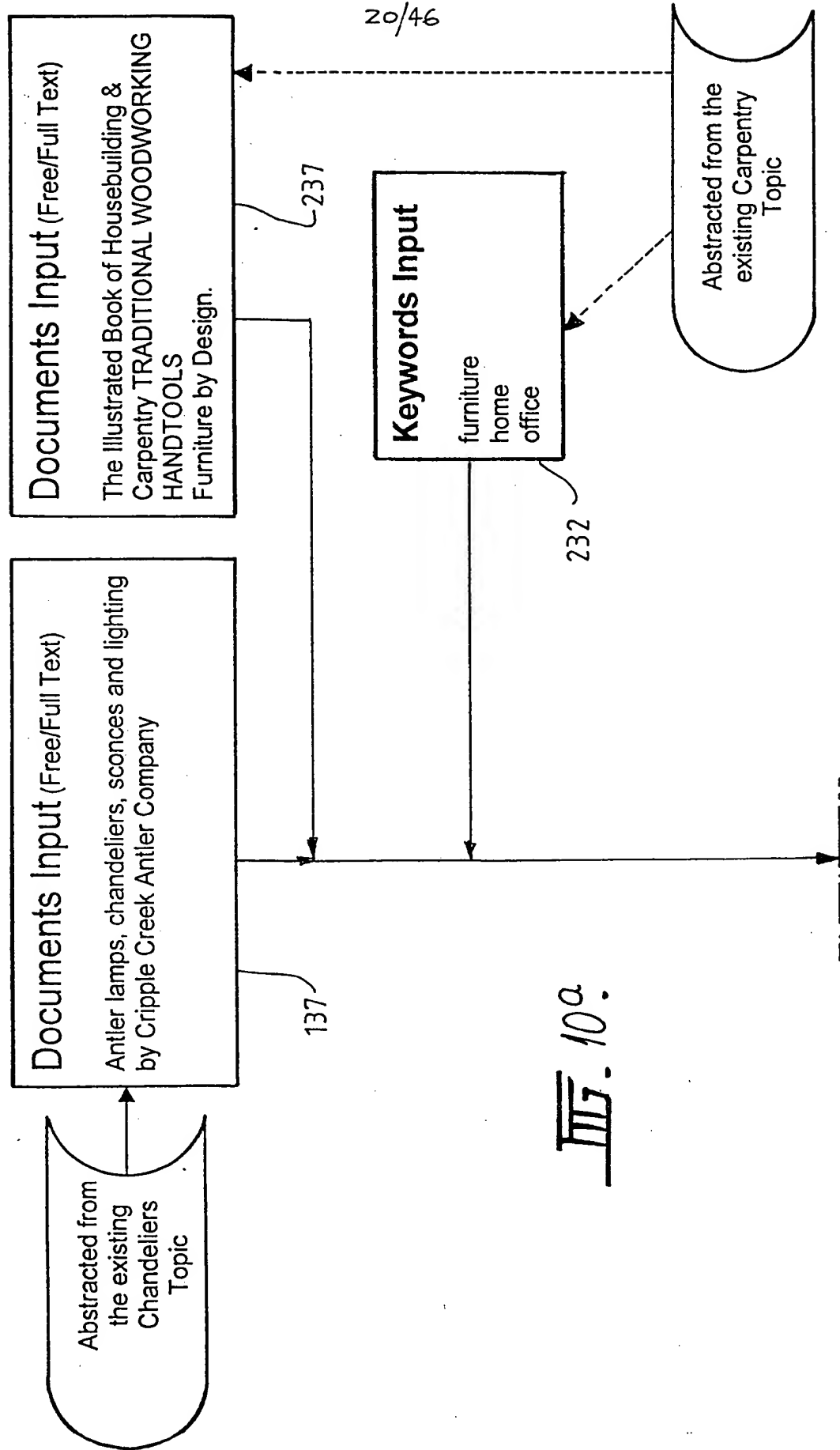
115 ga

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00031882-082004
TOP SECRET



Existing Pewter Topic Skew – An Example



III. 10^a.

21/46

32

37

40

III 10^b

UCPS Skew Tool

80

UCPS (Training Mode)

55

Pewter Topic

System Parameters

Categoriser Threshold Setting = 0.16
 Clusterer Threshold Setting = 0.3
 Summariser Threshold Setting = 0.2

A Combined Ranked List

pewterer	0.93
wood	0.91
furniture	0.84
Pewter	0.80
artwork	0.78
pewter plate	0.65
home	0.63
lamps	0.61
artist	0.6
casting / finishing	0.54
office	0.49
self-taught Sculptor	0.43
carpentry	0.38
metalworker	0.25
...	
pewter spoons	0.23

**System Kernel's
Perspective Of A
Profile**

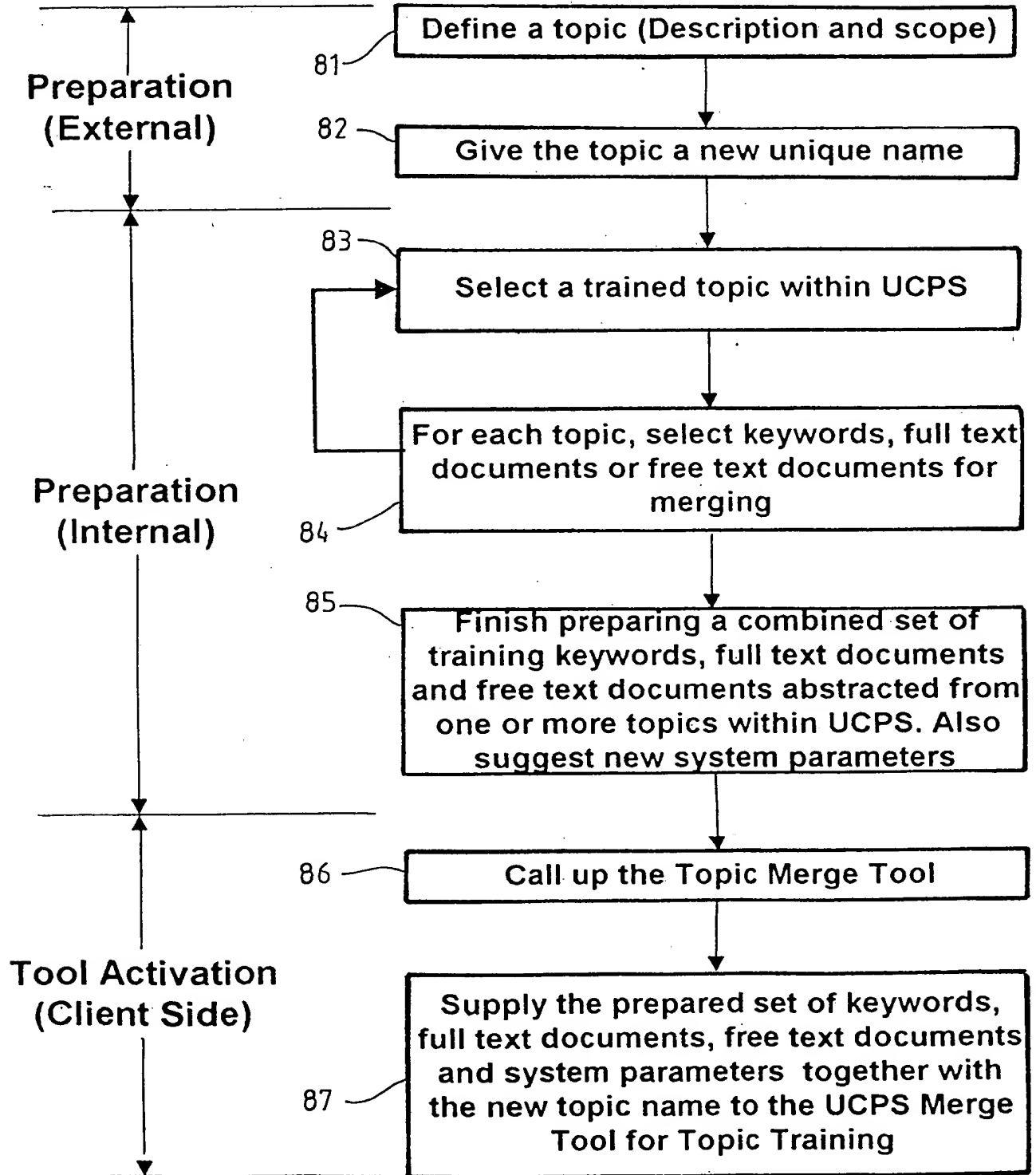
Very much skewed
towards Wood Carpentry
than Chandeliers Topics.
This Pewter Topic has
been skewed.

44

A Personalised Profile

00021882.082001

Topic Merge FlowChart



III. 11a

UCPS accept the new topic name and the combined set of training keywords, full text documents, free text documents and system parameters. Full and free text documents are further combined

67

UCPS parse and analyse each documents and break them into keywords, phrases and sentences. Combined with the keywords to form a list of new training keywords, phrases and sentences

68

UCPS gives weights and ranking to each keyword, phrase and sentence. This forms a ranked list. UCPS also set the system parameters

69

UCPS successfully merge a new ranked list of keywords, phrases and sentences with the set system parameters

70

Topic Training
(Server Side)

Categoriser

System Parameters Input

Categoriser Threshold Setting = 0.43
 Clusterer Threshold Setting = 0.81
 Summariser Threshold Setting = 0.02

340

III-12a

UCPS Merge Tool

90

UCPS (Training Mode)

55

Home-Lamp Topic

System Parameters

Categoriser Threshold Setting = 0.43
 Clusterer Threshold Setting = 0.81
 Summariser Threshold Setting = 0.02

344

A Combined Ranked List

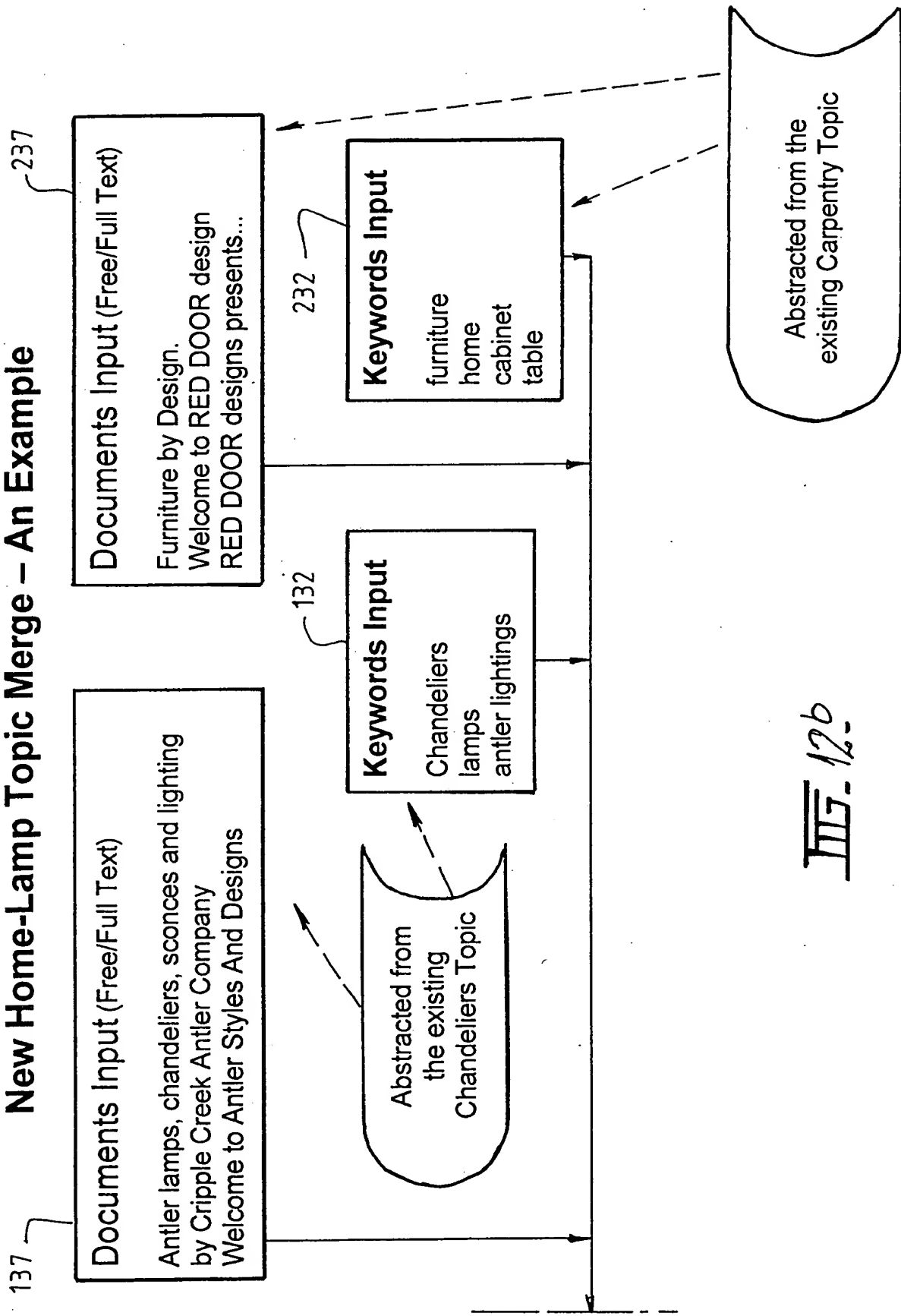
home	0.94
lamps	0.81
kitchen	0.808
RED DOOR	0.805
table	0.7
furniture	0.67
antler	0.65
antler lightings	0.64
design	0.6
cabinet	0.57
Chandeliers	0.55
window	0.4
craftmanship	0.33
Antler lightings	0.12
...	

A Personalised Profile

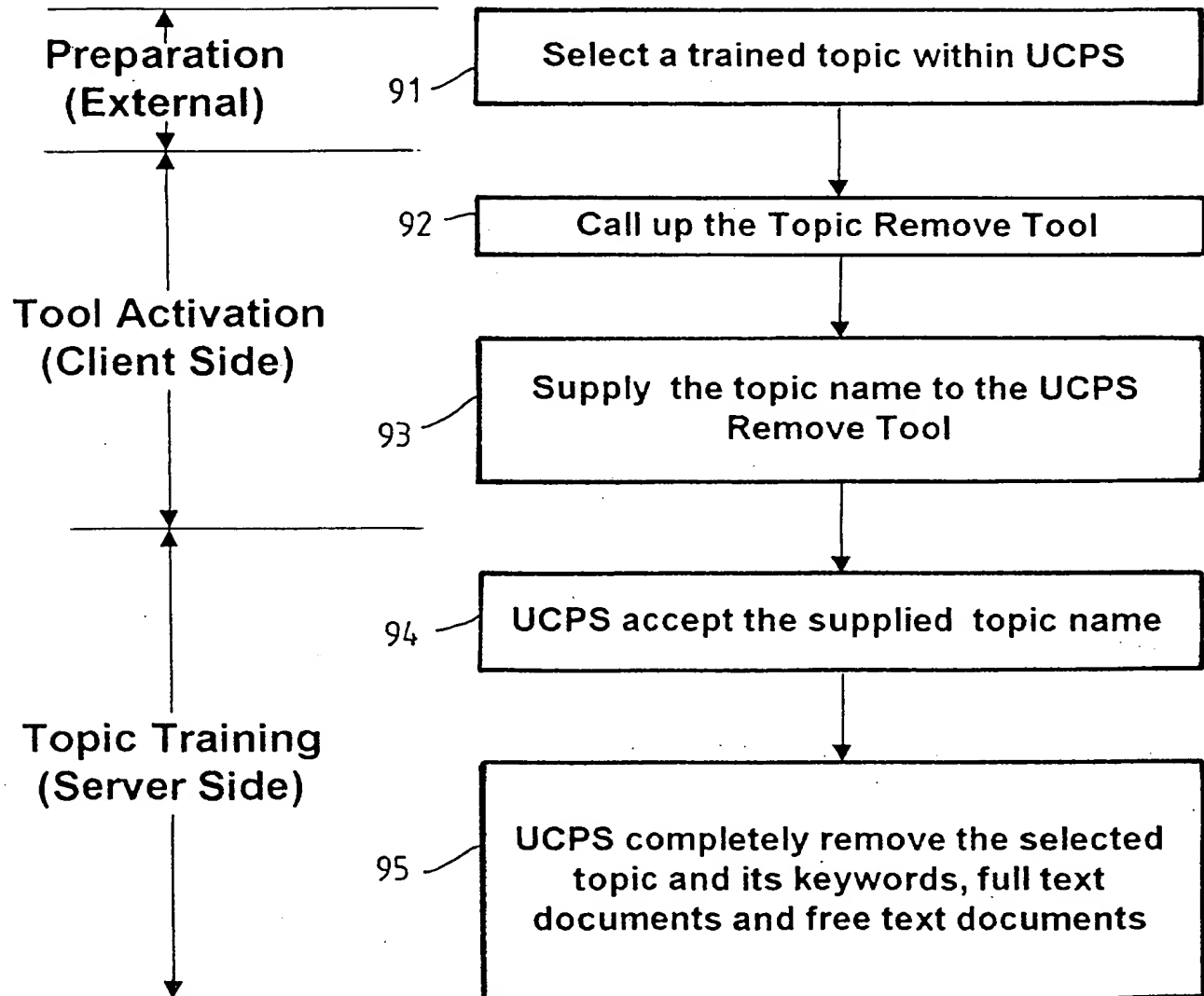
System Kernel's Perspective Of A Profile

A new topic is created based on internal input from 2 different topics. Except for system parameters, no external input is allowed for merging. External input can be used for subsequently update using the Update Tool.

New Home-Lamp Topic Merge – An Example



Topic Remove FlowChart



Topic Rename FlowChart

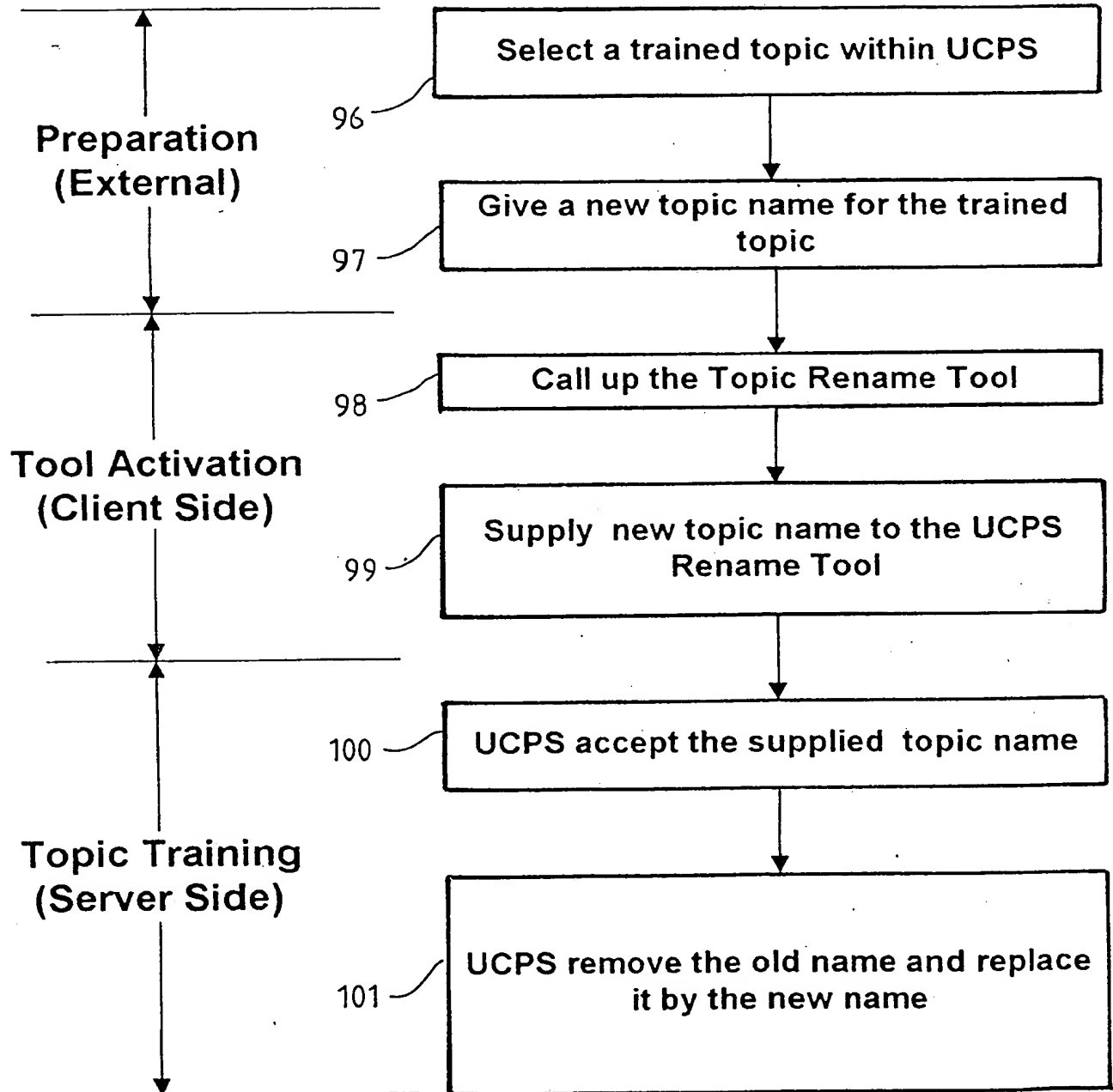
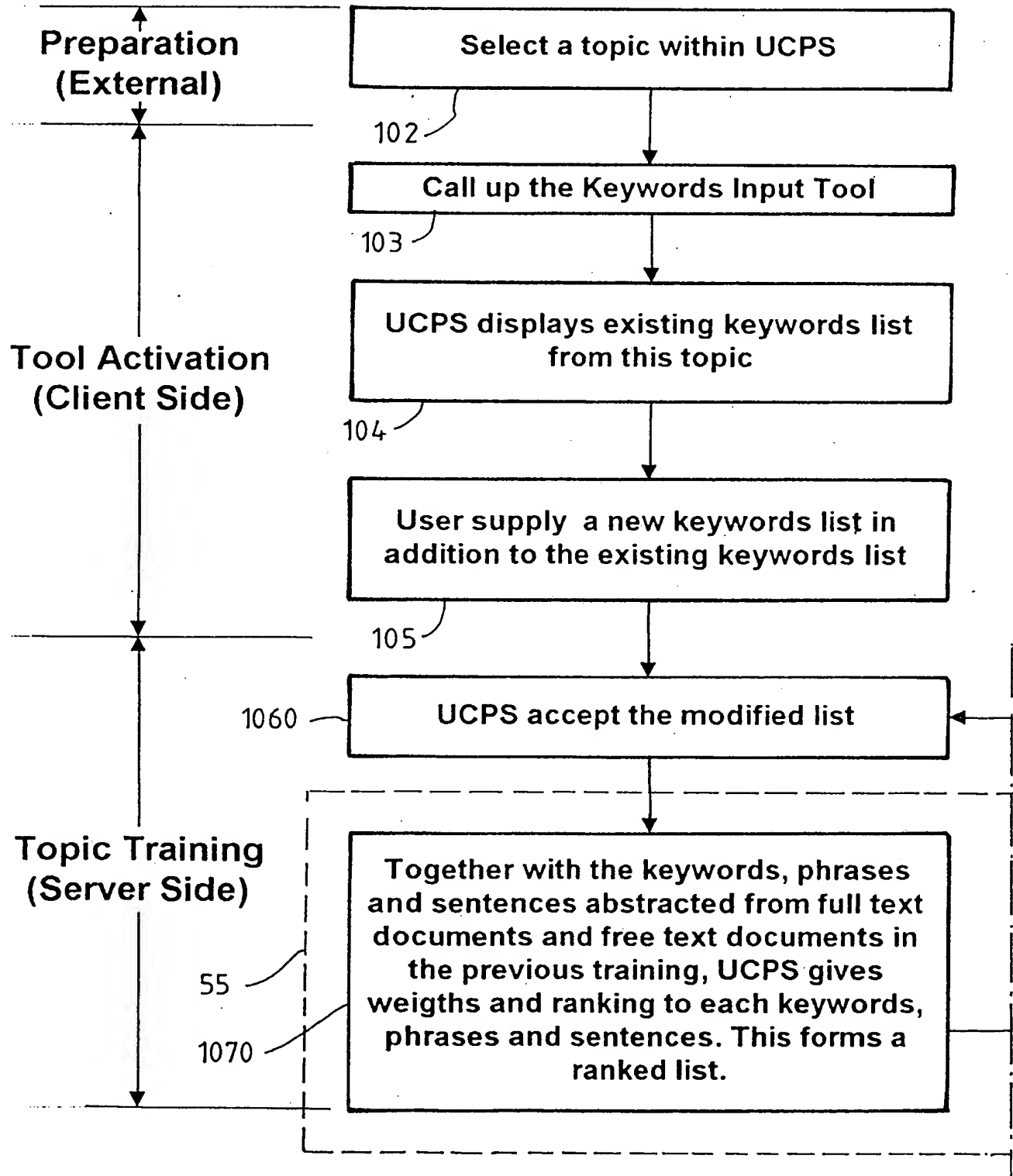


FIG. 15^a

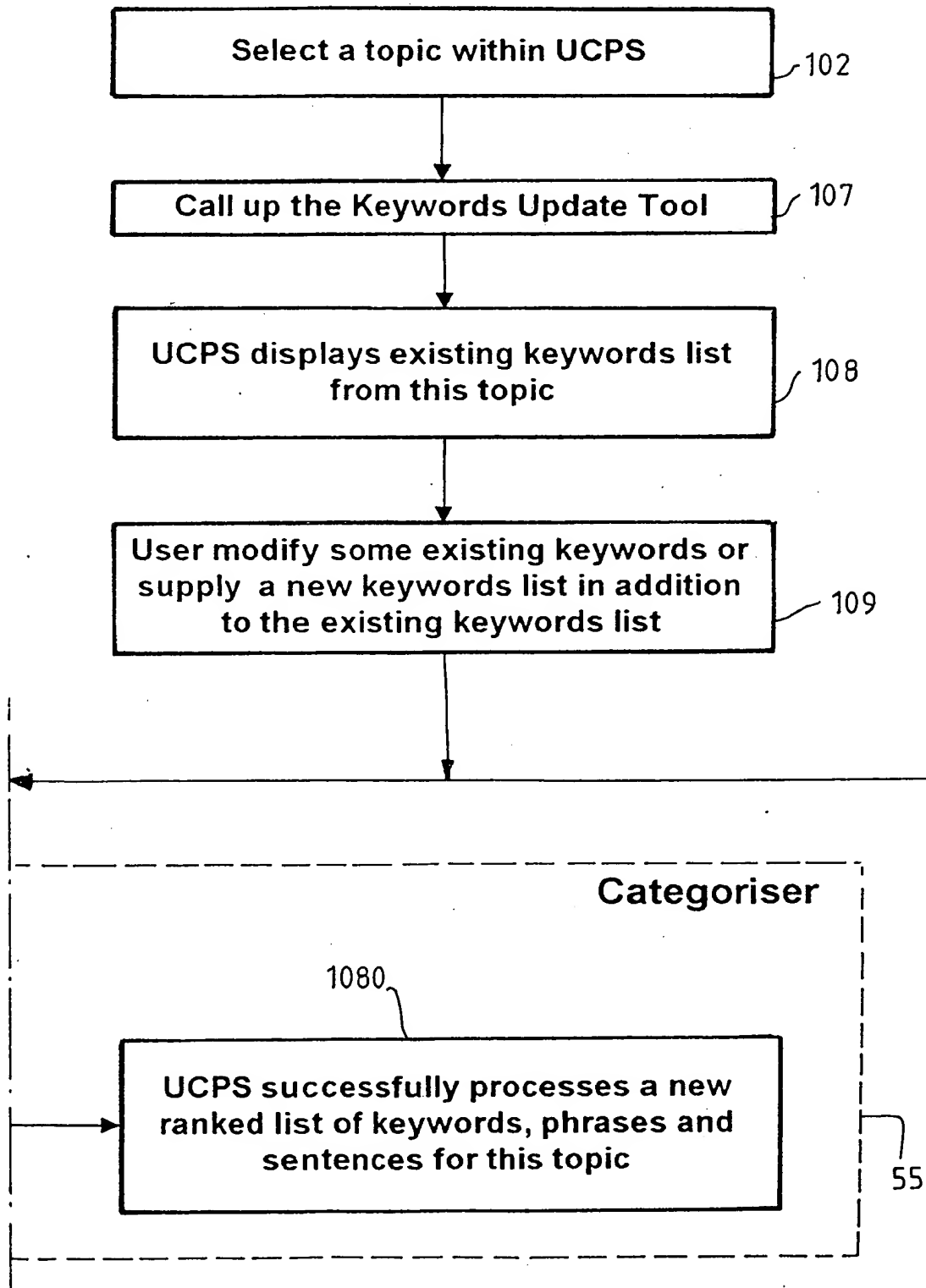
Keywords Input FlowChart



00931882, 082001
T00280, 288T660

Keywords Update FlowChart

III 15b



09931882.082001

```
graph TD; 102[102 Select a topic within UCPS] --> 110[110 Call up the Keywords Remove Tool]; 110 --> 111[111 UCPS displays existing keywords list from this topic]; 111 --> 112[112 User remove some or all of existing keywords]; 112 --> 102;
```

102 Select a topic within UCPS

110 Call up the Keywords Remove Tool

111 UCPS displays existing keywords list from this topic

112 User remove some or all of existing keywords

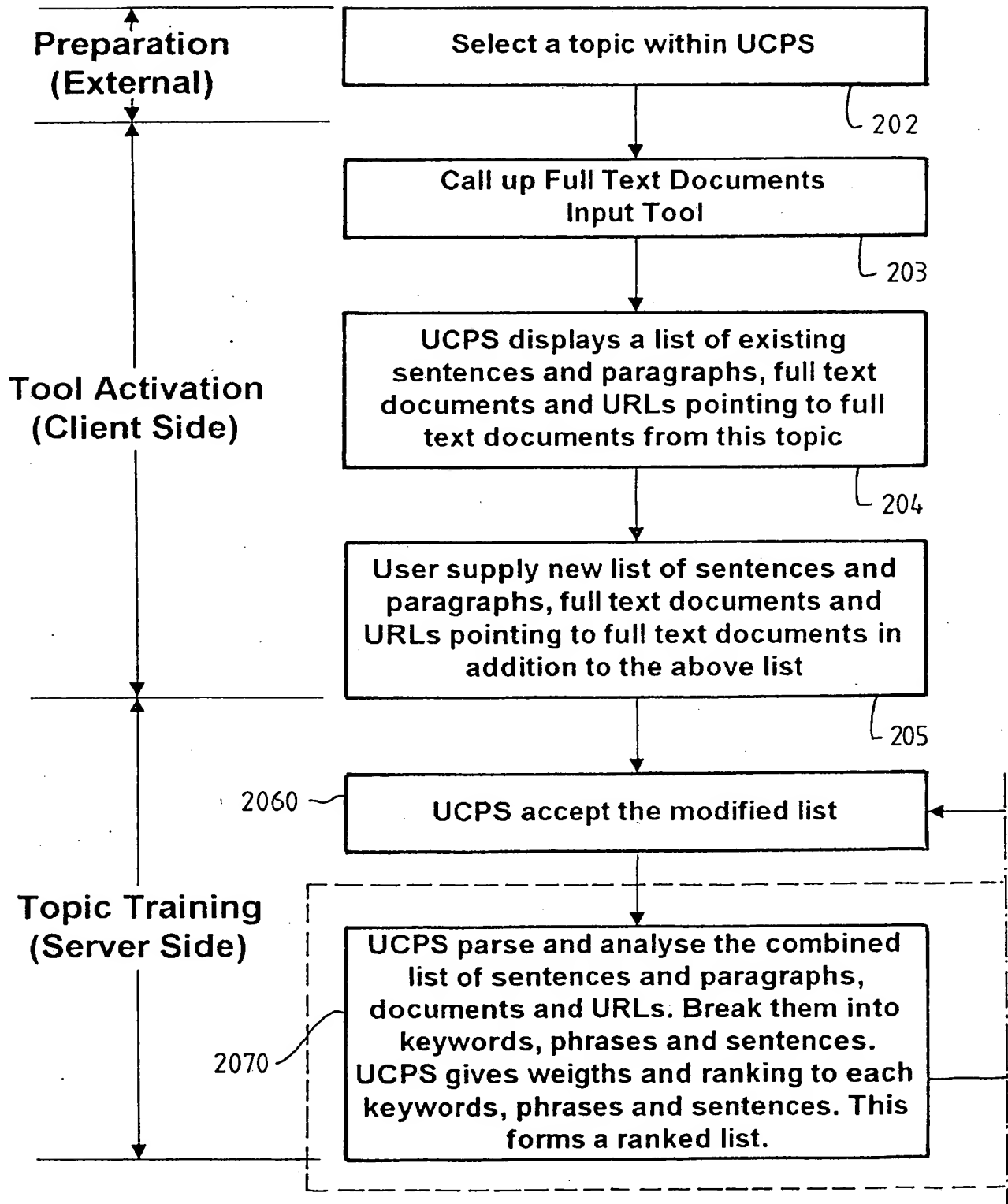
III. 15

III 15c

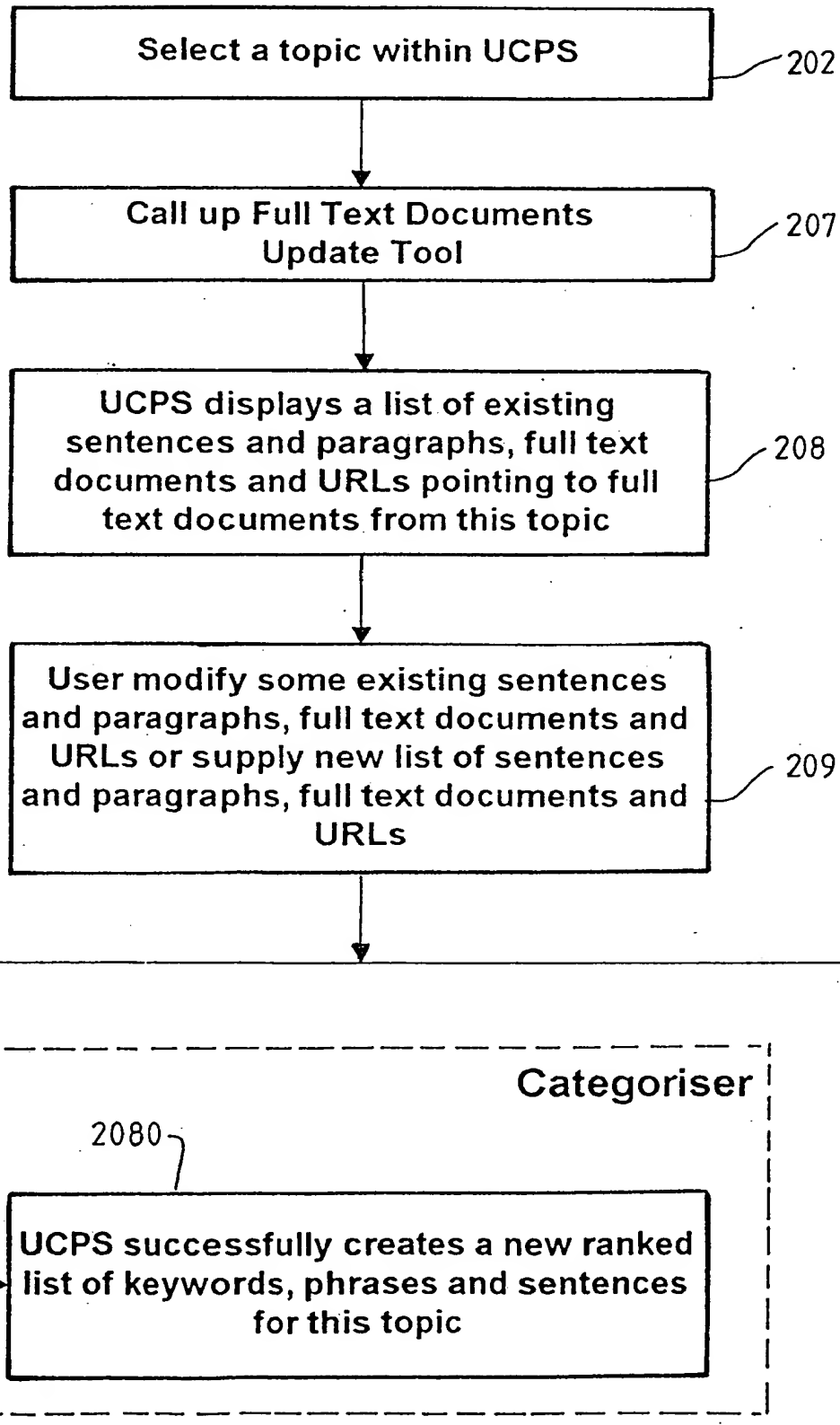
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Full Text Documents Input FlowChart

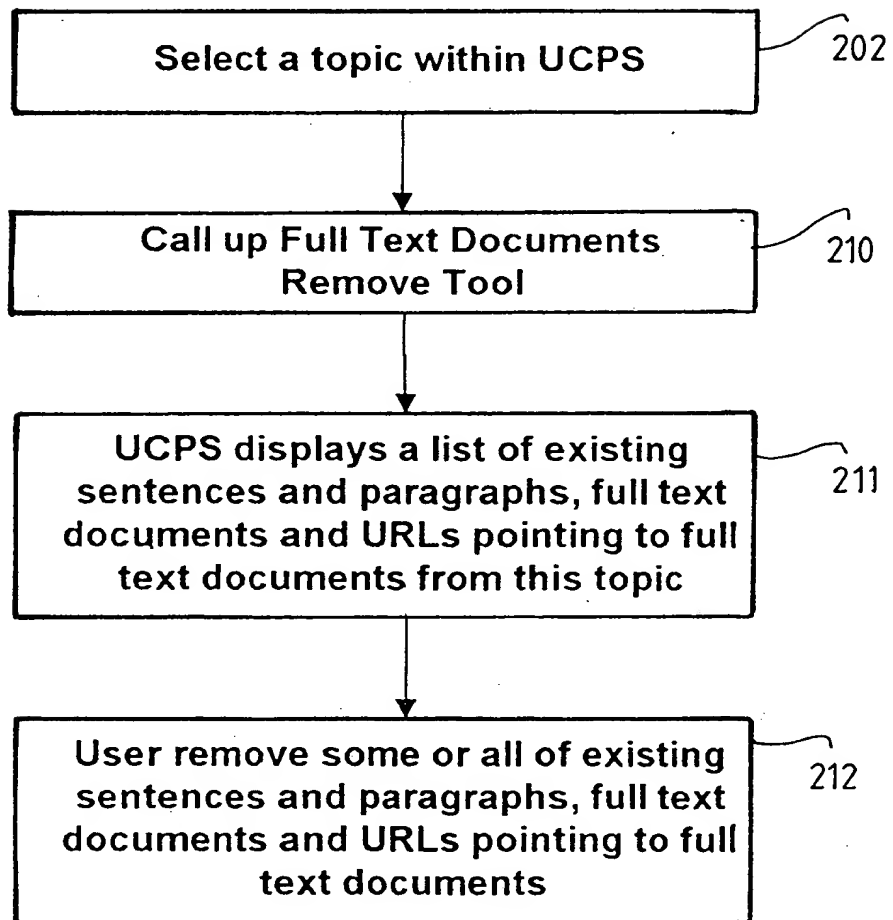
Fig. 16^a



Full Text Documents Update FlowChart

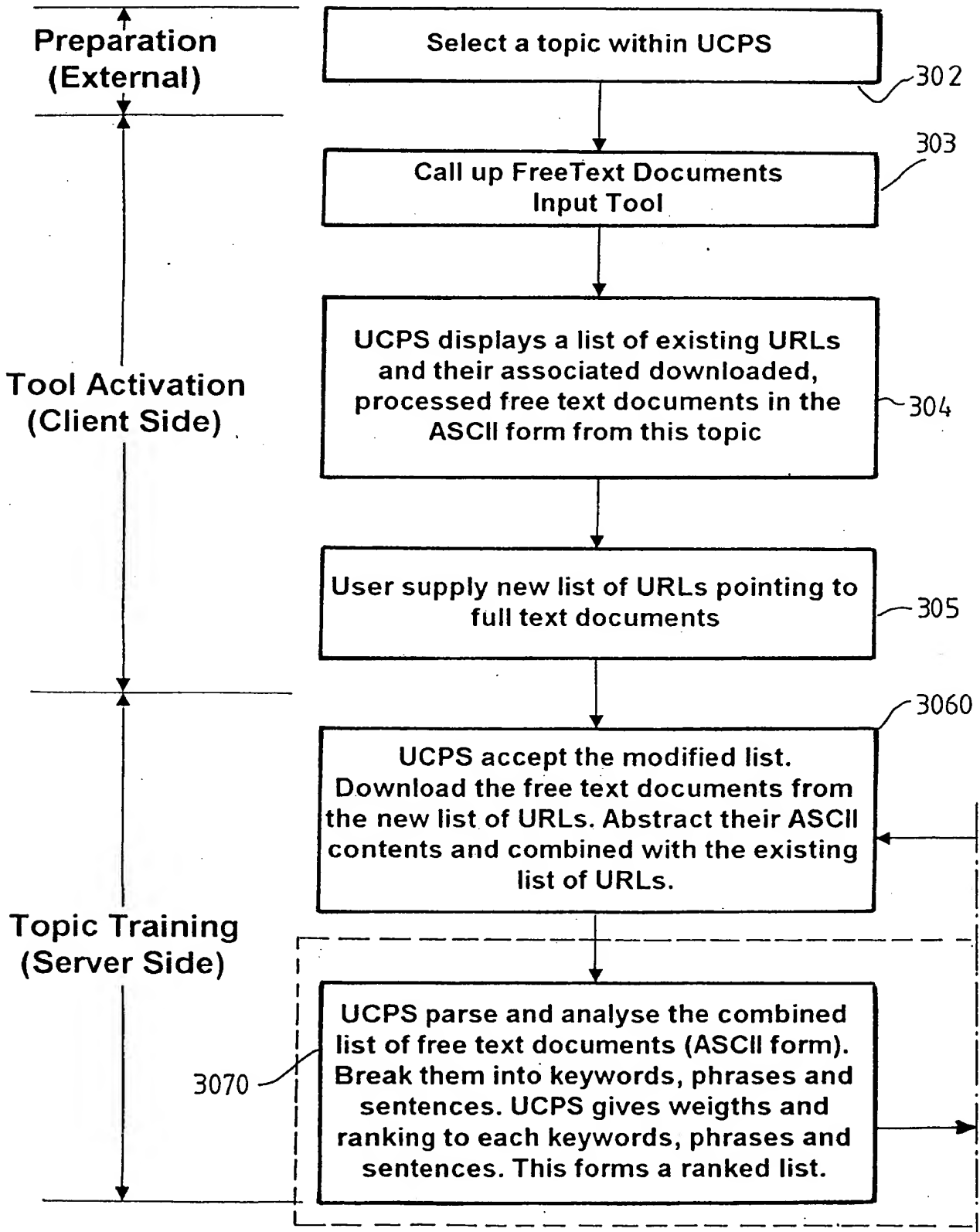
FIG. 16^b

Full Text Documents Remove FlowChart

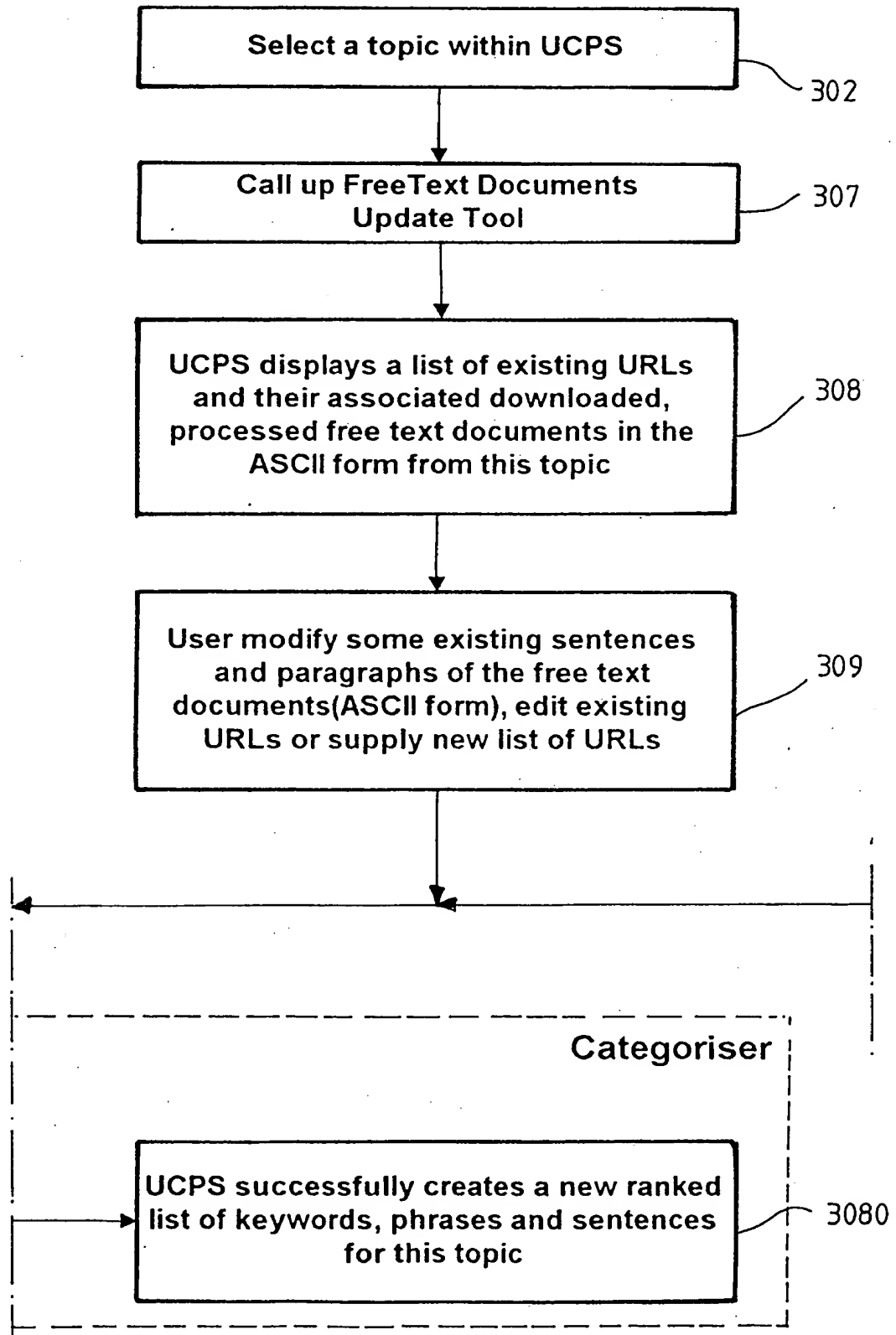
III 16c

Free Text Documents Input FlowChart

17 17^a



Free Text Documents Update FlowChart

FIG. 17^b

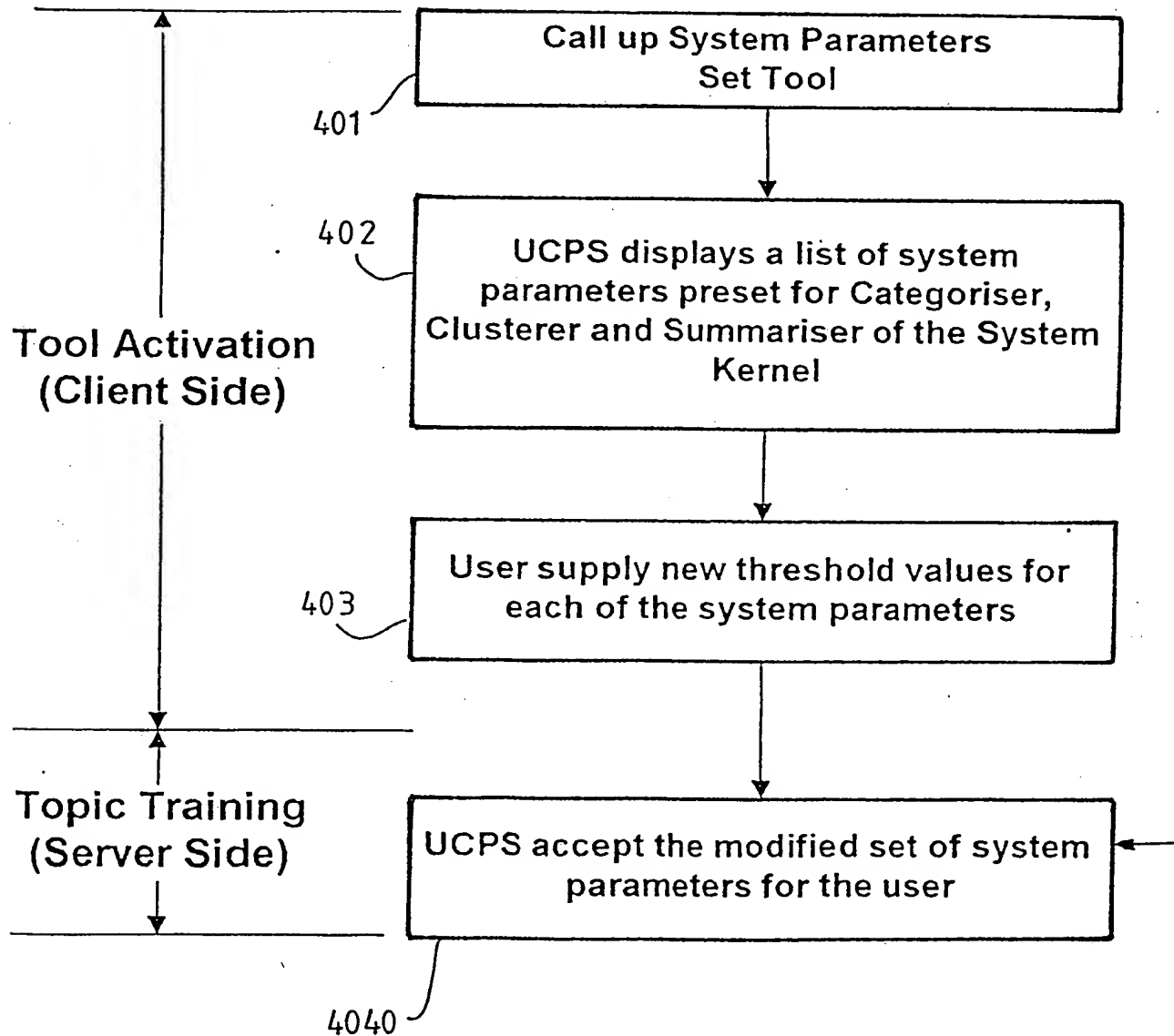
```

graph TD
    302[Select a topic within UCPS] --> 310[Call up Free Text Documents  
Remove Tool]
    310 --> 311[UCPS displays a list of existing URLs  
and their associated downloaded,  
processed free text documents in the  
ASCII form from this topic]
    311 --> 312[User remove some or all of existing  
URLs pointing to full text  
documents(ASCII form)]
    312 --> 17C[17C]

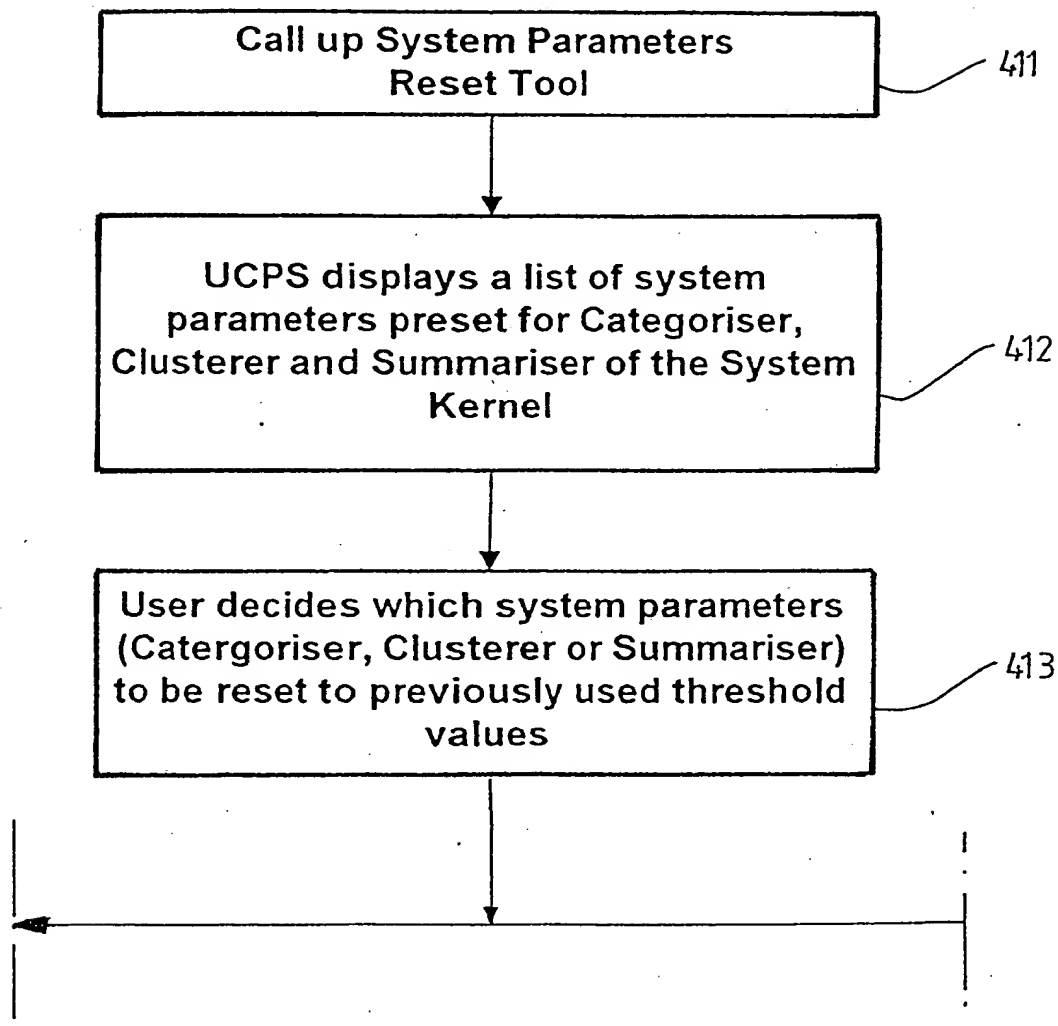
```

17c

System Parameters Set FlowChart

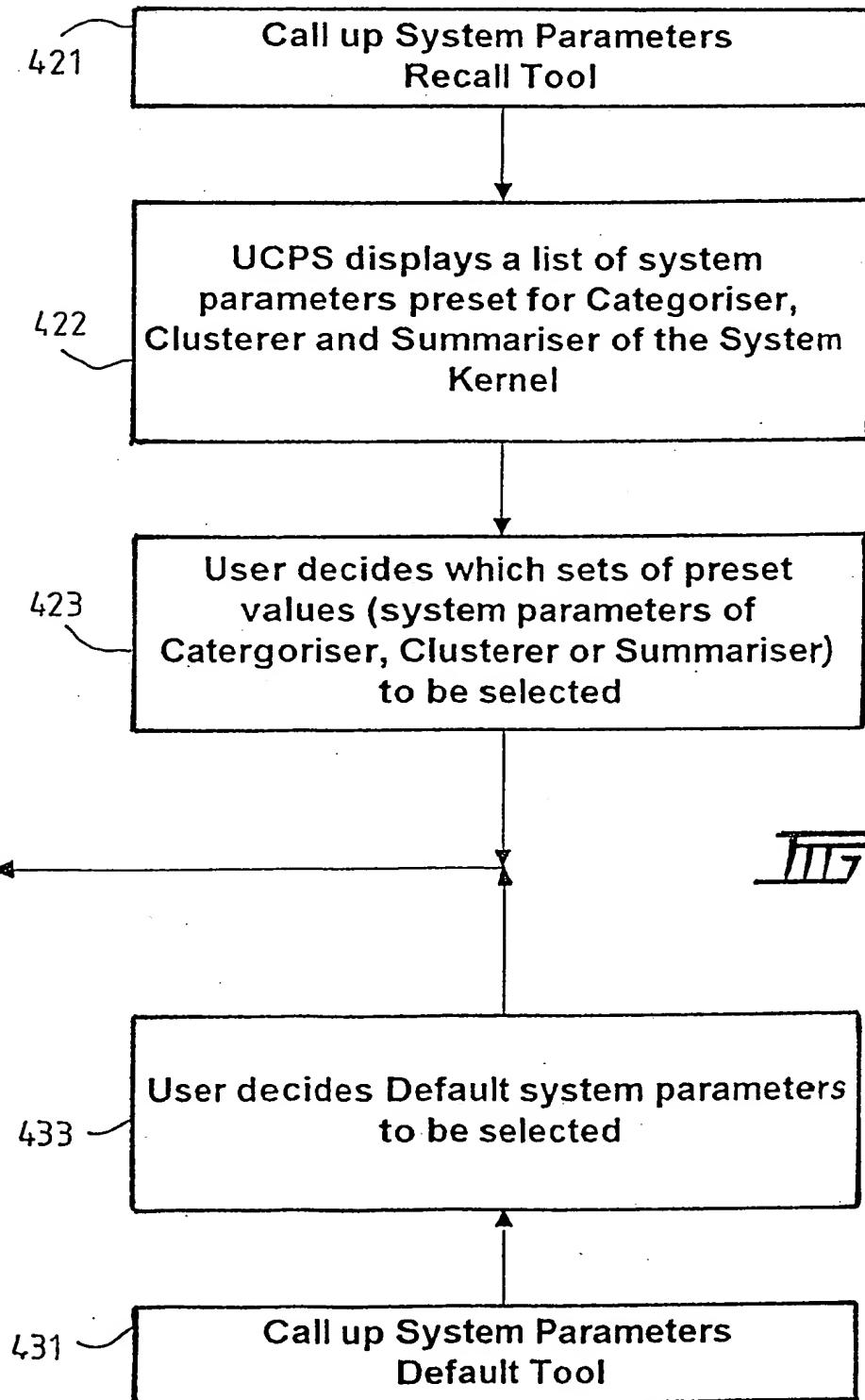
FIG. 18a

System Parameters Reset FlowChart



III 18^b

System Parameters Recall FlowChart



517

Pewter Tray

- Pewter Collectibles presented by **Richard & Gina TioRito**
- The Compass Rose
- Figurines and Other Interesting Things Handcrafted and Cast in Fine Pewter
- Care for Pewter
- Woodworking and Pewter Handcraft Handbook
- Fine Customised Inlays for Pewter
- Blue Raven Design
- Beautiful Pewter Gallery
- Pewter Factory
- More About Pewter
- A brief history
- Housebuilding, Carpentry and Pewtry
- This month tip : June 1999
- Design for Pewter
- Buy And Sell of Pewter : The Marketplace
- Cabinetmaking with pewter decoration
- Pewter for Desks and Tables
- Richard Bissell Fine Pewtry
- Bridal Gifts
- Danforth Pewterers
- Welcome To Ozard Arts
- Flamingo Pewters
- Royal Selango : Malaysia's Gift To The World
- Pewter Thailand

Pewter TrayIII 19^a

09931882.082001

511

Cluster (Buy And Sell)

- Pewter Collectibles presented by Richard & Gina Tio Rito
- Pewter Factory
- Buy And Sell of Pewter : The Marketplace
- Richard Bissell Fine Pewtry
- Bridal Gifts
- Danforth Pewterers
- Flamingo Pewters
- Royal Selango : Malaysia's Gift To The World
- Online Auction for Golden Millennium Dragon Plaque
- Pewter Thailand
- The Compass Rose

512

Cluster (Design And Handcraft)

- Figurines and Other Interesting Things Handcrafted and Cast in Fine Pewter
- Beautiful Pewter Gallery
- Woodworking and Pewter Handcraft Handbook
- Blue Raven Design
- Housebuilding, Carpentry and Pewtry
- Cabinetmaking with pewter decoration
- Pewter for Desks and Tables

510

Unclustered

- Care for Pewter
- More About Pewter
- A brief history
- This month tip : June 1999
- Welcome To Ozard Arts
- This Month tip : June 1999
- Fine Customised Inlays for Pewter

Pewter Clusters
(Clusterer Threshold Setting = 0.3)

- 5111

- 51113

-5112

- 5113

- Richard Bissell Fine Pewtry
- Danforth Pewterers
- Flamingo Pewters
- Royal Selangor : Malasia's Gift To The World
- Pewter Thailand

- 5121

- 5122

- Beautiful Pewter Gallery
- Blue Raven Design
- Pewter for Desks and Tables

III 19c

III. 20^a.

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Online Auction for Golden Millennium Dragon Plaque (Summarised Text)

As the Millennium Golden Dragon Year arrives only once in every three thousand years, Royal Selangor has created a limited edition Golden Millennium Dragon Plaque, the highlight of a special collection of pewter items inspired by the majestic dragon. To mark the dawn of a new era, Royal Selangor has launched an online auction for three selected plaques with three numbers of "prosperity": 8. 88 and 888.

51113a

H5.20b

5113b7

Online Auction for Golden Millennium Dragon Plaque (Original Text)

According to the Chinese lunar calendar, the year 2000 will coincide with the Year of the Dragon. Influenced by the element of metal in oriental astrology, this year is also referred to as the "Year of the Golden Dragon." As the Millennium Golden Dragon Year arrives only once in every three thousand years, Royal Selangor has created a limited edition Golden Millennium Dragon Plaque, the highlight of a special collection of pewter items inspired by the majestic dragon. Limited to only 1,000 plaques worldwide, this exquisite creation, introduced just about three months ago, is almost sold out with demands still coming in from all over the world.

To mark the dawn of a new era, Royal Selangor has launched an online auction for three selected plaques with three numbers of "prosperity" : 8, 88 and 888. In addition, Royal Selangor is also conducting a Charity Auction jointly with Nanyang-China Press for plaque number 138, where proceeds will be donated to a charity designated by the joint organisers. These auspicious numbers translate to a wish of a "prosperous life" to the owner of the plaques.

Royal Selangor's Millennium Golden Dragon Plaque is a befitting objet d'art to usher in the new era. The Flying Dragon, a popular symbol of prosperity in Chinese legendary folklore, is seen dancing amidst billowing clouds and playing with a Fire Pearl. The three-dimensional pewter rendition of the dragon brings out the vigour and dynamism of the mythical creature, while 24K-gold is used to enhance the body of the dragon and to create a glittering effect. The wooden frame with tastefully-designed pewter-gold corners accentuates the overall impression of luxury and exclusivity. The plaque comes with a serial number and a certificate of authenticity.

Bids for the three auspicious plaques 8, 88 and 888 will begin at RM 2888 while bids for plaque number 138 will begin at RM 3888. The auction begins at 12 pm, on 13 January 2000 and ends at 12 pm, 2 February 2000. No bid will be accepted before or after the duration. Bidders can log onto the website at www.royalselangor.com/dragonauction or www.lelong.com.my or call the Online Auction Centre at 03-4021 2121 from Mondays to Fridays, 9 am to 5 pm for information and telephone bids.

Royal Selangor Online Shop has been making many innovative steps in the Internet world, with online contests, free international shipping and a dynamic e-commerce site, which gives access to its exclusive products from virtually anywhere. This online auction will be a major milestone in Royal Selangor's foray into E-commerce.....

Content Personalization : Knowledge Discovery

